



TITLE:

## Contents of vol. XIII

AUTHOR(S):

---

CITATION:

Contents of vol. XIII. The Review of Physical Chemistry of Japan 1939, 13(3)

ISSUE DATE:

1939-12-31

URL:

<http://hdl.handle.net/2433/46552>

RIGHT:

# THE REVIEW OF PHYSICAL CHEMISTRY OF JAPAN

EDITED BY

PROF. SHINKICHI HORIBA (KYOTO IMPERIAL UNIVERSITY)

AND

PROF. JITSUSABURO SAMESHIMA (TOKYO IMPERIAL UNIVERSITY)

## VOL. XIII

### 1939

Published by

THE PHYSICO-CHEMICAL SOCIETY OF JAPAN

in the Department of Physical Chemistry,  
Kyoto Imperial University, Japan.

---



---

# Rev. Phys. Chem. Japan, XIII (1939).

---



---

## Contents

### Originals

<b>Shun-ichirô Iijima:</b> On the Adsorption of Hydrogen on Poisoned Nickel. II.....	1
<b>Syoji Shida:</b> On the Photochemical Decomposition of Ammonia.....	12
<b>Ryutaro Tsuchida:</b> Extended Co-ordination Theory of Valency. II. Configuration of Carbon Compounds.....	31
<b>Shun-ichirô Iijima:</b> On the Adsorption of Nitrogen on Reduced Nickel. ....	42
<b>Ryutaro Tsuchida and Masahisa Kobayashi:</b> Extended Co-ordination Theory of Valency. III. Valence Bonds in Carbon Compounds .....	61
<b>Eiji Suito:</b> Thermal Analysis of the Catalytic Action of Colloids. I. Catalytic Decomposition of Hydrogen Peroxide by Colloidal Platinum. ....	74
<b>Kimio Kawakita:</b> On the Chemisorption of Carbon Dioxide by Reduced Iron. III. Thermodynamic Consideration of the Chemisorption .....	87
<b>Tetsuzo Kitagawa:</b> Emission Spectrum of the Oxy-Hydrogen Flame and its Reaction Mechanism. I. Formation of the Activated Water Molecule in Higher Vibrational States.....	96
<b>Ryô Kiyama:</b> The Decomposition of Ammonia by Iron Catalyst Mixed with $Al_2O_3$ and $K_2O$ .....	125
<b>Katsumi Seya:</b> The Decomposition of Ammonia by Iron Catalyst.....	137
<b>Tokutaro Hagiwara:</b> Liberation of Neutrons in the Nuclear Explosion of Uranium Irradiated by Thermal Neutrons. ....	145
<b>Ryutaro Tsuchida, Masahisa Kobayashi and Hisao Kuroya:</b> Extended Co-ordination Theory of Valency. IV. Configuration of Compounds of Transition Elements. ....	151
<b>Yukio Kondo and Osamu Toyama:</b> High Temperature Oxidation of Carbon Monoxide Catalyzed by Quartz Surface.....	166
<b>Abstracts of Physico-Chemical Literature in Japan</b> ...49, 108, 176	
<b>Author Index</b> .....	201